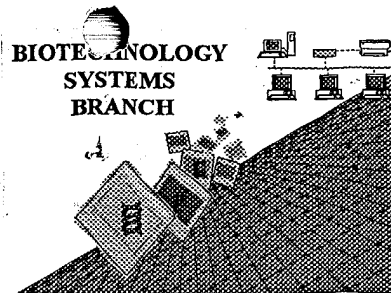


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/942,596

Source: OIP/E

Date Processed by STIC: 9/18/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001
 TIME: 11:27:09

Input Set : A:\PTO_VSK.txt
 Output Set: N:\CRF3\09182001\I942596.raw

Does Not Comply
 Corrected Diskette Needed

2 <110> APPLICANT: Canon INC.
 W--> 3 <120> TITLE OF INVENTION: Method of analyzing base sequence of nucleic
 W--> 4 acid
 W--> 5 <130> FILE REFERENCE: CFO 15718
 C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/942,596
 C--> 6 <141> CURRENT FILING DATE: 2001-08-31
 6 <150> PRIOR APPLICATION NUMBER: JP 263506/2000
 W--> 7 <160> NUMBER OF SEQ ID: 66

→ <1517 insert this
 numeric identifier
 and its sequence,
 since <1507
 is shown

ERRORED SEQUENCES

W--> 8 <210> SEQ ID NO: 1
 9 <211> LENGTH: 18
 10 <212> TYPE: DNA
 11 <213> ORGANISM: Artificial sequence
 W--> 12 <220> FEATURE:
 13 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 14 <400> SEQUENCE: 1
 E--> 15 gatgggactc aagttcat
 16 <210> SEQ ID NO: 2
 17 <211> LENGTH: 18
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Artificial sequence
 W--> 20 <220> FEATURE:
 21 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 22 <400> SEQUENCE: 2
 E--> 23 gatgggactc aggttcat
 24 <210> SEQ ID NO: 3
 25 <211> LENGTH: 18
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial sequence
 W--> 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 30 <400> SEQUENCE: 3
 E--> 31 gatgggactc acgttcat
 32 <210> SEQ ID NO: 4
 33 <211> LENGTH: 18
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Artificial sequence
 W--> 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 38 <400> SEQUENCE: 4
 E--> 39 gatgggactc atgttcat
 40 <210> SEQ ID NO: 5
 41 <211> LENGTH: 18
 42 <212> TYPE: DNA

18 ← insert cumulative base total at
 right margin of
 each line

same error

(global
 error)

same

same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001
TIME: 11:27:09

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\09182001\I942596.raw

```

43 <213> ORGANISM: Artificial sequence
W--> 44 <220> FEATURE:
45 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 46 <400> SEQUENCE: 5
E--> 47 gatgggactc gagttcat
48 <210> SEQ ID NO: 6
49 <211> LENGTH: 18
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial sequence
W--> 52 <220> FEATURE:
53 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 54 <400> SEQUENCE: 6
E--> 55 gatgggactcgggtcat
56 <210> SEQ ID NO: 7
57 <211> LENGTH: 18
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial sequence
W--> 60 <220> FEATURE:
61 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 62 <400> SEQUENCE: 7
E--> 63 gatgggactc gcgttcat
64 <210> SEQ ID NO: 8
65 <211> LENGTH: 18
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial sequence
W--> 68 <220> FEATURE:
69 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 70 <400> SEQUENCE: 8
E--> 71 gatgggactc gtgttcat
72 <210> SEQ ID NO: 9
73 <211> LENGTH: 18
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial sequence
W--> 76 <220> FEATURE:
77 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 78 <400> SEQUENCE: 9
E--> 79 gatgggactc cagttcat
80 <210> SEQ ID NO: 10
81 <211> LENGTH: 18
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial sequence
W--> 84 <220> FEATURE:
85 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 86 <400> SEQUENCE: 10
E--> 87 gatgggactc cggttcat
88 <210> SEQ ID NO: 11
89 <211> LENGTH: 18
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial sequence

```

same

insert a space after each group of 10 bases in a non-coding sequence

insert cumulative base total

same

same

same

same

same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001
TIME: 11:27:09

Input Set : A:\PTO_VSK.txt
Output Set : N:\CRF3\09182001\I942596.raw

W--> 92 <220> FEATURE:
93 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 94 <400> SEQUENCE: 11
E--> 95 gatgggactc ccgttcac *same*
96 <210> SEQ ID NO: 12
97 <211> LENGTH: 18
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial sequence
W--> 100 <220> FEATURE:
101 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 102 <400> SEQUENCE: 12
E--> 103 gatgggactc ctgttcac *same*
104 <210> SEQ ID NO: 13
105 <211> LENGTH: 18
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial sequence
W--> 108 <220> FEATURE:
109 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 110 <400> SEQUENCE: 13
E--> 111 gatgggactc tagttcac *same*
112 <210> SEQ ID NO: 14
113 <211> LENGTH: 18
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial sequence
W--> 116 <220> FEATURE:
117 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 118 <400> SEQUENCE: 14
E--> 119 gatgggactc tggttcac *same*
120 <210> SEQ ID NO: 15
121 <211> LENGTH: 18
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial sequence
W--> 124 <220> FEATURE:
125 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 126 <400> SEQUENCE: 15
E--> 127 gatgggactc tcgttcac *same*
128 <210> SEQ ID NO: 16
129 <211> LENGTH: 18
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial sequence
W--> 132 <220> FEATURE:
133 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 134 <400> SEQUENCE: 16
E--> 135 gatgggactc ttgttcac *same*
136 <210> SEQ ID NO: 17
137 <211> LENGTH: 18
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial sequence
W--> 140 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001

TIME: 11:27:09

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942596.raw

141 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 142 <400> SEQUENCE: 17
E--> 143 gatggggctc aagttcat *same*
144 <210> SEQ ID NO: 18
145 <211> LENGTH: 18
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial sequence
W--> 148 <220> FEATURE:
149 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 150 <400> SEQUENCE: 18
E--> 151 gatggggctc aggttcat *same*
152 <210> SEQ ID NO: 19
153 <211> LENGTH: 18
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial sequence
W--> 156 <220> FEATURE:
157 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 158 <400> SEQUENCE: 19
E--> 159 gatggggctc acgttcat *same*
160 <210> SEQ ID NO: 20
161 <211> LENGTH: 18
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial sequence
W--> 164 <220> FEATURE:
165 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 166 <400> SEQUENCE: 20
E--> 167 gatggggctc atgttcat *same*
168 <210> SEQ ID NO: 21
169 <211> LENGTH: 18
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial sequence
W--> 172 <220> FEATURE:
173 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 174 <400> SEQUENCE: 21
E--> 175 gatggggctc gagttcat *same*

↓
The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001
TIME: 11:27:10

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\09182001\I942596.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:270 C: Current Application Number differs, Replaced Current Application No
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:7 M:283 W: Missing Blank Line separator, <160> field identifier
L:8 M:283 W: Missing Blank Line separator, <210> field identifier
L:12 M:283 W: Missing Blank Line separator, <220> field identifier
L:14 M:283 W: Missing Blank Line separator, <400> field identifier
L:15 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:1
L:20 M:283 W: Missing Blank Line separator, <220> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:23 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:2
L:28 M:283 W: Missing Blank Line separator, <220> field identifier
L:30 M:283 W: Missing Blank Line separator, <400> field identifier
L:31 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:3
L:36 M:283 W: Missing Blank Line separator, <220> field identifier
L:38 M:283 W: Missing Blank Line separator, <400> field identifier
L:39 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:4
L:44 M:283 W: Missing Blank Line separator, <220> field identifier
L:46 M:283 W: Missing Blank Line separator, <400> field identifier
L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:5
L:52 M:283 W: Missing Blank Line separator, <220> field identifier
L:54 M:283 W: Missing Blank Line separator, <400> field identifier
L:55 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:17 SEQ:6
L:55 M:252 E: No. of Seq. differs, <211>LENGTH:Input:18 Found:17 SEQ:6
L:60 M:283 W: Missing Blank Line separator, <220> field identifier
L:62 M:283 W: Missing Blank Line separator, <400> field identifier
L:63 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:7
L:68 M:283 W: Missing Blank Line separator, <220> field identifier
L:70 M:283 W: Missing Blank Line separator, <400> field identifier
L:71 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:8
L:76 M:283 W: Missing Blank Line separator, <220> field identifier
L:78 M:283 W: Missing Blank Line separator, <400> field identifier
L:79 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:9
L:84 M:283 W: Missing Blank Line separator, <220> field identifier
L:86 M:283 W: Missing Blank Line separator, <400> field identifier
L:87 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:10
L:92 M:283 W: Missing Blank Line separator, <220> field identifier
L:94 M:283 W: Missing Blank Line separator, <400> field identifier
L:95 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:11
L:100 M:283 W: Missing Blank Line separator, <220> field identifier
L:102 M:283 W: Missing Blank Line separator, <400> field identifier
L:103 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:12
L:108 M:283 W: Missing Blank Line separator, <220> field identifier
L:110 M:283 W: Missing Blank Line separator, <400> field identifier
L:111 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:13
L:116 M:283 W: Missing Blank Line separator, <220> field identifier
L:118 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001

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Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942596.raw

L:119 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:14
L:124 M:283 W: Missing Blank Line separator, <220> field identifier
L:126 M:283 W: Missing Blank Line separator, <400> field identifier
L:127 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:15
L:132 M:283 W: Missing Blank Line separator, <220> field identifier
L:134 M:283 W: Missing Blank Line separator, <400> field identifier
L:135 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:16
L:140 M:283 W: Missing Blank Line separator, <220> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:143 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:17
L:148 M:283 W: Missing Blank Line separator, <220> field identifier
L:150 M:283 W: Missing Blank Line separator, <400> field identifier
L:151 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:18
L:156 M:283 W: Missing Blank Line separator, <220> field identifier
L:158 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:19
L:164 M:283 W: Missing Blank Line separator, <220> field identifier
L:166 M:283 W: Missing Blank Line separator, <400> field identifier
L:167 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:20
L:172 M:283 W: Missing Blank Line separator, <220> field identifier
L:174 M:283 W: Missing Blank Line separator, <400> field identifier
L:175 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:21
L:180 M:283 W: Missing Blank Line separator, <220> field identifier
L:182 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:22
L:188 M:283 W: Missing Blank Line separator, <220> field identifier
L:190 M:283 W: Missing Blank Line separator, <400> field identifier
L:191 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:23
L:199 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:24
L:207 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:25
L:215 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:26
L:223 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:27
L:231 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:28
L:239 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:29
L:247 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:30
L:255 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:31
L:263 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:32
L:271 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:33
L:279 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:34
L:287 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:35
L:295 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:36
L:303 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:37
L:311 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:38
L:319 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:39
L:327 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:40
L:335 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:41
L:343 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:42
L:351 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:43
L:359 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:44

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,596

DATE: 09/18/2001

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Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942596.raw

L:367 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:45
L:375 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:46
L:383 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:47
L:391 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:48
L:399 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:49
L:407 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:50